

Date: Tue, 21 Jun 94 04:30:27 PDT  
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>  
Errors-To: Ham-Digital-Errors@UCSD.Edu  
Reply-To: Ham-Digital@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Digital Digest V94 #203  
To: Ham-Digital

Ham-Digital Digest                      Tue, 21 Jun 94                      Volume 94 : Issue    203

Today's Topics:

                    Baycom and TCP/IP  
                    DRSI HF Modem?? (2 msgs)  
                    finding the freq of an xtal  
                    GTOR evaluation/update?  
                    HAM/PACKET MODEM FAQ?  
                    Info Wanted - paKet 6.0  
                    MFJ 1274 - Info wanted  
                    Railroad track as an antenna? (2 msgs)  
                    SoundBoard scope program  
                    WA8DED rom wanted gor v2.6 need higher

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>  
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 20 Jun 1994 20:07:54 GMT  
From: ihnp4.ucsd.edu!sdd.hp.com!spool.mu.edu!howland.reston.ans.net!cs.utexas.edu!  
convex!news.duke.edu!godot.cc.duq.edu!newsfeed.pitt.edu!dsinc!netnews.upenn.edu!  
news@network.ucsd.edu  
Subject: Baycom and TCP/IP  
To: ham-digital@ucsd.edu

I am looking for anyone who has successfully enstalled Baycom modem with  
AX.25 and NOS. I cannot get the software to work. I do not know whether  
it is the AUTOEXEC.NOS file, or the commands I am using.

Thanks

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Date: 20 Jun 1994 13:01:00 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!agate!spool.mu.edu!torn!news.unb.ca!  
nbt.nbnet.nb.ca!mockler.nbnet.nb.ca!mockler@network.ucsd.edu  
Subject: DRSI HF Modem??  
To: ham-digital@ucsd.edu

I have a DRSI Type 2 and a DRSI Type 1 in my 386, which runs a packetcluster node. I find that the HF modem does a very poor job. At one time I owned a PK-232 and it could copy just about anything. The DRSI HF modem seems to have real problems. Has anyone else beside me actually bought one of these? If so, how do you find that it works? de Rick VE9HF.

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Date: 20 Jun 1994 13:02:37 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!agate!howland.reston.ans.net!spool.mu.edu!  
torn!news.unb.ca!nbt.nbnet.nb.ca!mockler.nbnet.nb.ca!mockler@network.ucsd.edu  
Subject: DRSI HF Modem??  
To: ham-digital@ucsd.edu

In article <mockler.6.0@nbnet.nb.ca> mockler@nbnet.nb.ca (Mockler Allen & Dixon) writes:

>From: mockler@nbnet.nb.ca (Mockler Allen & Dixon)  
>Subject: DRSI HF Modem??  
>Date: 20 Jun 1994 13:01:00 GMT  
>I have a DRSI Type 2 and a DRSI Type 1 in my 386, which runs a  
>packetcluster node. I find that the HF modem does a very poor  
>job. At one time I owned a PK-232 and it could copy just  
>about anything. The DRSI HF modem seems to have real problems.  
>Has anyone else beside me actually bought one of these? If so,  
>how do you find that it works? de Rick VE9HF.

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Date: Mon, 20 Jun 1994 14:07:17 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!gatech!  
usenet.ins.cwru.edu!nshore!seastar!jjw@network.ucsd.edu  
Subject: finding the freq of an xtal  
To: ham-digital@ucsd.edu

As quoted from <2u0mk4\$sgt@crl3.crl.com> by acsys@crl.com (Acsys Inc.):

>  
> I have a xtal of unknown value (~8.7mhz) that I need to find the exact  
> frequency of. What is the best way to do this? I do have a frequency

> counter, sho should I build a xtal osc and use the coutner? How bout  
> a simple osc made out of cmos parts like the 4011? If so what would  
> be a good schematic to use to do this? I need to be quite accurate.  
>  
> thanx,  
>  
> mycal

What are you going to do with the crystal? If you'll be using it in an oscillator and you need it to be accurately measured, build the oscillator (see TTL databooks for a good circuit) and measure that. If you're using it for a crystal filter, you more likely need the series resonant frequency (the TTL oscillator is parallel-resonant, and typically a few kilohertz higher in frequency, and changes with varying capacitance). Series resonant can best be had by using a signal generator and an oscscope. If this is what you need, write me for details (won't waste bandwidth this way).

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While (its\_not\_working())  
 mess\_with\_it();

John Welch, N9JZW  
jjw@seastar.org

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Date: 20 Jun 1994 20:21:15 GMT  
From: newsgw.mentorg.com!hpbab33.mentorg.com!wv.mentorg.com!hanko@uunet.uu.net  
Subject: GTOR evaluation/update?  
To: ham-digital@ucsd.edu

In article <hamilton.771896040@BIX.com>, hamilton@BIX.com (hamilton on BIX) writes:

|> rogjd@netcom.com (Roger Buffington) writes:  
|>  
|> >I'd be interested in hearing about your evaluations of GTOR versus Clover  
|> >or Pactor. How is this new mode working out?  
|>  
|> I also would be interested in hearing reports from those who've tried  
|> these different protocols. But I must say, from the evidence in front  
|> of me, it looks like Clover, available only in the IBM PC plug-in board  
|> from HAL, is going to have a miserable time against a protocol available  
|> in a standard outboard TNC unless its technical advantages are just  
|> overwhelming.

Well ... to date that has been the case:  
CLOVER far outperforms any other protocol on HF.

... Hank

--

Hank Oredson @ Mentor Graphics                      Library Operations  
Internet        : hank\_oredson@mentorg.com        "Parts 'R Us!"  
Amateur Radio: WORLI@WORLI.OR.USA.NOAM

-----  
Date: 20 Jun 1994 20:15:51 -0300  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!spool.mu.edu!news.cs.indiana.edu!  
nstn.ns.ca!halifax-24-2.nstn.ns.ca!drew@network.ucsd.edu  
Subject: HAM/PACKET MODEM FAQ?  
To: ham-digital@ucsd.edu

I'm looking for information about packet modems that work over VHF/HF radio.  
Is there a FAQ for rec.radio.amateur? Any information you happen to have  
would be greatly appreciated.

Drew

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Date: Mon, 20 Jun 1994 16:19:52 GMT  
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!olivea!  
news.bu.edu!gw1!nntpa!lena!jkbe@network.ucsd.edu  
Subject: Info Wanted - paKet 6.0  
To: ham-digital@ucsd.edu

I am looking for information on the latest release of a packet terminal  
program called paKet. Does anyone know of a ftp site or land line BBS  
that has this new version?

John, WB3ESS aljkbe@attme.att.com

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Date: Mon, 20 Jun 1994 11:23:14 +0000  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!pipex!uknet!demon!  
oiiag.demon.co.uk!ijg@network.ucsd.edu  
Subject: MFJ 1274 - Info wanted  
To: ham-digital@ucsd.edu

I have recently bought an MFJ1274 TNC. All working well. But thought  
that it should have MAIL facility. I couldn't find anything in the  
User Manual that referenced MAIL (having scanned it several times).

Eventually, while in QSO with a friend, he suggested trying to type

'MAIL ON'. Suprise - suprise, it accepted it and presumably enable the mail system. Why is such an important feature undocumented ?

However - I am new to packet and in need of advice as to how to use my TNC's mailbox, e.g reading it! Can anyone please enlighten me ?

The specification on the box and when the TNC powers up, is that it supports FAX and BPL (what's BPL??). Does anyone know how to use these from the MFJ1274. I have a couple of FAX progs, e.g. JVFAX and WEFAX, but not sure whether I can use this TNC with these progs.

Would be very grateful for ANY info - especially any other undocumented command !

Life used to be so simple with a morse key !!!!!

--

Ian Gillingham (G0FLB)

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Date: 20 Jun 94 12:59:48 GMT

From: ihnp4.ucsd.edu!agate!spool.mu.edu!bloom-beacon.mit.edu!crl.dec.com!  
crl.dec.com!random!nntpd.lkg.dec.com!cimcad.enet.dec.com!pierson@network.ucsd.edu  
Subject: Railroad track as an antenna?  
To: ham-digital@ucsd.edu

In article <2u2rkq\$5p7@jabba.cybernetics.net>, tarumph@jabba.cybernetics.net (Tim Rumph) writes...

>STORM JAMES (s9898198@sandcastle.cosc.brocku.ca) wrote:

>: I have heard a legend that a college radio station (either at MIT, Tufts,  
>: or Swarthmore) welded antenna to railroad tracks, and peeved the FCC by  
>: broadcasting nationwide. Is this true? If anyone knows, please email me  
>: (or post here) If you do know, could you please direct me to some  
>: documentation regarding this legend if you can.

>I don't think that this would be useful for the frequencies used for  
>comercial radio, but the Pensylvania RR did use inductive train phones  
>that used low frequency signal passed through the rail.

The trainphone system was basically a huge air core transformer, using existing line side wire (including catenary, where present) and the rails to form the coil. The frequencies were in the 30-50KHz regions.

>The antennas looked like hand rails on top of the cars and locos. This worked  
>very well for the trains, but the equipment was not at all portable,  
"walkie talkies" with antennas as 4 foot dia hoops (to be carried strung over the shoulder) were tried. Not popular with crews. Useful

installations on locos, cabees (errrr\_cabins\_) and wayside.

> and propagation away from the tracks was very poor.

A feature. RR business stayed private.

thanks

dave pierson |the facts, as accurately as i can manage,

Digital Equipment Corporation |the opinions, my own.

200 Forest St |I am the NRA.

Marlboro, Mass 01751 |pierson@msd26.enet.dec.com

"He has read everything, and, to his credit, written nothing." A J Raffles

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Date: 20 Jun 1994 15:55:07 GMT

From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!

howland.reston.ans.net!noc.near.net!sunfish.hi.com!brainiac.hi.com!

user@network.ucsd.edu

Subject: Railroad track as an antenna?

To: ham-digital@ucsd.edu

In article <CrJyCE.8xH@synoptics.com>, jkaidor@synoptics.com (Jerome Kaidor) wrote:

> \*\*\*\*\* Actually, as I remember it, typical practice is to use a separate inductive loop

> under the track. Seems that there's something about trains that can cause a large

> inductance change when they pass overhead :-).

Actually, it's the other way around; signals from the inductive loop under the track are picked-up by a small coil mounted on the locomotive. This system feeds the block-occupancy information from the track circuit to relay-logic on the locomotive. The signal indication is relayed in the cab of the locomotive. If the engineer does not acknowledge the signal indication (by pushing lever) and respond appropriately (by observing the appropriate speed restriction for the signal indication), the logic applies the emergency brakes.

This system and variants were a result of a federal regulation (ICC or FRA - I forget) that allowed higher speeds if such automatic safeguards were implemented.

Steve Byan  
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phone: (617) 890-0444

FAX: (617) 890-4998  
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Date: Mon, 20 Jun 94 11:32:54 PDT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!gatech!asuvax!chnews!  
news@network.ucsd.edu  
Subject: SoundBoard scope program  
To: ham-digital@ucsd.edu

Can anyone tell me where I can obtain a Microsoft Windows 5Mhz Oscilloscope program that will run on my PC,s sound board which supports stereo right/left channel input to display a lissajous pattern?

The reason I'm looking for this type of program, so I can attach my sound board,s input, to my PK232 TNC,s mark/space output, for tuning digital signals on the HF bands. Updates need to occur at a minimum of 2 seconds to make tuning functional, and the oscilloscope display Windows needs to be scaleable in size.

Tom WB7ASR...

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Date: Mon, 20 Jun 1994 11:11:55 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!pipex!uknet!EU.net!sun4nl!  
news.nic.surfnet.nl!tuegate.tue.nl!Carla.diensten.hse.nl!  
J.Verhoeven@network.ucsd.edu  
Subject: WA8DED rom wanted gor v2.6 need higher  
To: ham-digital@ucsd.edu

Hello,

I have a tnc2 with a rom that contains wa8ded v2.6 and tapr 1.1.7.  
I have discovered that the software has some disadvantages.  
Example:

when receiving frame 2 and 4 the tnc sends a RR3 (receiver is ready to receive frame 3). after frame 3 has arrived it sends a RR4. But frame 4 is has already arrived correctly. The tnc should have send a RR5 (ready fore frame 5).

The software that I use with my baycom modem does this correctly. It saves a lot of bandwidth because correct frames aren't transmitted again.

I asume that this function is already built in in newer version of wa8ded hostmode software. I have version 2.6 at the moment but I have read postings of people talking about 6.6.4.

My quest is the search of this new software.  
Where can I find romimages of this new software or where can I buy it??  
(btw. I live in the netherlands europe, so obscure stores in singapore are

out of the question. unless the have internet access).

More information about wa8ded is also very nice I got a document that talks about v0.91 and I use v2.6 so there is probably a great difference.

jan verhoeven

J.Verhoeven@nw.hse.nl

or

nl1eer@nl1eer.nl.cbpr.org (yes that's my home computer via an internet-  
packet gateway).

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End of Ham-Digital Digest V94 #203

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